

Li Ge

List of Publications by Year in descending order

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98
papers

7,849
citations

94269

37
h-index

60497

81
g-index

99
all docs

99
docs citations

99
times ranked

4417
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Hermitian photonics based on parity-time symmetry. Nature Photonics, 2017, 11, 752-762.	15.6	917
2	Coherent Perfect Absorbers: Time-Reversed Lasers. Physical Review Letters, 2010, 105, 053901.	2.9	912
3	P - T -Symmetry Breaking and Laser-Absorber Modes in Optical Scattering Systems. Physical Review Letters, 2011, 106, 093902.	2.9	820
4	Time-Reversed Lasing and Interferometric Control of Absorption. Science, 2011, 331, 889-892.	6.0	673
5	Ultrafast control of vortex microlasers. Science, 2020, 367, 1018-1021.	6.0	457
6	Pump-Induced Exceptional Points in Lasers. Physical Review Letters, 2012, 108, 173901.	2.9	396
7	Conservation relations and anisotropic transmission resonances in one-dimensional P - T -symmetric photonic heterostructures. Physical Review A, 2012, 85, .	1.0	354
8	Strong Interactions in Multimode Random Lasers. Science, 2008, 320, 643-646.	6.0	348
9	Modes of random lasers. Advances in Optics and Photonics, 2011, 3, 88.	12.1	163
10	Antisymmetric P - T -photonic structures with balanced positive- and negative-index materials. Physical Review A, 2013, 88, .	1.0	157
11	Experimental Demonstration of Spontaneous Chirality in a Nonlinear Microresonator. Physical Review Letters, 2017, 118, 033901.	2.9	149
12	Directional Laser Emission from a Wavelength-Scale Chaotic Microcavity. Physical Review Letters, 2010, 105, 103902.	2.9	119
13	Steady-state <i>ab initio</i> laser theory: Generalizations and analytic results. Physical Review A, 2010, 82, .	1.0	114
14	All-optical control of lead halide perovskite microlasers. Nature Communications, 2019, 10, 1770.	5.8	104
15	Revealing the missing dimension at an exceptional point. Nature Physics, 2020, 16, 571-578.	6.5	100
16	Synthetic Anti- P - T Symmetry in a Single Microcavity. Physical Review Letters, 2020, 124, 053901.	2.9	98
17	Unconventional modes in lasers with spatially varying gain and loss. Physical Review A, 2011, 84, .	1.0	92
18	Channeling Chaotic Rays into Waveguides for Efficient Collection of Microcavity Emission. Physical Review Letters, 2012, 108, 243902.	2.9	85

#	ARTICLE	IF	CITATIONS
19	Parity-Time Symmetry Breaking beyond One Dimension: The Role of Degeneracy. Physical Review X, 2014, 4, .	2.8	83
20	Defect States Emerging from a Non-Hermitian Flatband of Photonic Zero Modes. Physical Review Letters, 2018, 120, 093901.	2.9	83
21	Nonlinear modal interactions in parity-time (PT) symmetric lasers. Scientific Reports, 2016, 6, 24889.	1.6	81
22	Exceptional points and lasing self-termination in photonic molecules. Physical Review A, 2014, 90, .	1.0	79
23	Active control of emission directionality of semiconductor microdisk lasers. Applied Physics Letters, 2014, 104, 231108.	1.5	75
24	Breaking of PT Symmetry in Bounded and Unbounded Scattering Systems. Physical Review X, 2013, 3, .	2.8	67
25	Symmetry-protected zero-mode laser with a tunable spatial profile. Physical Review A, 2017, 95, .	1.0	64
26	Parity-time symmetry in a flat-band system. Physical Review A, 2015, 92, .	1.0	63
27	Theory of the spatial structure of nonlinear lasing modes. Physical Review A, 2007, 76, .	1.0	56
28	Supersymmetric laser arrays. Physical Review A, 2015, 92, .	1.0	56
29	Rotating Optical Microcavities with Broken Chiral Symmetry. Physical Review Letters, 2015, 114, 053903.	2.9	51
30	Metawaveguide for Asymmetric Interferometric Light-Light Switching. Physical Review Letters, 2016, 117, 193901.	2.9	49
31	Non-Hermitian lattices with a flat band and polynomial power increase [Invited]. Photonics Research, 2018, 6, A10.	3.4	48
32	Local Chirality of Optical Resonances in Ultrasmall Resonators. Physical Review Letters, 2012, 108, 253902.	2.9	47
33	Non-Hermitian engineering of single mode two dimensional laser arrays. Scientific Reports, 2016, 6, 33253.	1.6	45
34	Ab initio self-consistent laser theory and random lasers. Nonlinearity, 2009, 22, C1-C18.	0.6	44
35	Quantitative verification of ab initio self-consistent laser theory. Optics Express, 2008, 16, 16895.	1.7	42
36	Scattering in PT and $\hat{\mathcal{A}}$ and RT symmetric multimode waveguides: Generalized conservation laws and spontaneous symmetry breaking beyond one dimension. Physical Review A, 2015, 92, .	1.0	40

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37	Parityâ€Time Symmetry Synthetic Lasers: Physics and Devices. <i>Advanced Optical Materials</i> , 2019, 7, 1900694.	3.6	40
38	Effects of spatially nonuniform gain on lasing modes in weakly scattering random systems. <i>Physical Review A</i> , 2010, 81, .	1.0	39
39	Formation of long-lived resonances in hexagonal cavities by strong coupling of superscar modes. <i>Physical Review A</i> , 2013, 88, .	1.0	37
40	Enhancement of laser power-efficiency by control of spatial hole burning interactions. <i>Nature Photonics</i> , 2014, 8, 871-875.	15.6	35
41	Steady-state ab initio laser theory for N-level lasers. <i>Optics Express</i> , 2012, 20, 474.	1.7	32
42	Pump-controlled modal interactions in microdisk lasers. <i>Physical Review A</i> , 2015, 91, .	1.0	32
43	Stable switching among high-order modes in polariton condensates. <i>Physical Review B</i> , 2018, 97, .	1.1	32
44	Extreme output sensitivity to subwavelength boundary deformation in microcavities. <i>Physical Review A</i> , 2013, 87, .	1.0	31
45	Rotation-induced evolution of far-field emission patterns of deformed microdisk cavities. <i>Optica</i> , 2015, 2, 323.	4.8	28
46	Contrasting eigenvalue and singular-value spectra for lasing and antilasing in a PT -symmetric periodic structure. <i>Physical Review A</i> , 2017, 95, .	1.0	26
47	Wavelength-scale deformed microdisk lasers. <i>Physical Review A</i> , 2011, 84, .	1.0	24
48	Quasiparityâ€Time Symmetric Microdisk Laser. <i>Laser and Photonics Reviews</i> , 2017, 11, 1700052.	4.4	23
49	Transporting the Optical Chirality through the Dynamical Barriers in Optical Microcavities. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800027.	4.4	22
50	Controlling multimode coupling by boundary-wave scattering. <i>Physical Review A</i> , 2013, 88, .	1.0	20
51	Optical-reciprocity-induced symmetry in photonic heterostructures and its manifestation in scattering PT -symmetry breaking. <i>Physical Review A</i> , 2016, 94, .	1.0	19
52	Rotation-induced mode coupling in open wavelength-scale microcavities. <i>Physical Review A</i> , 2014, 90, .	1.0	17
53	Direct observation of chaotic resonances in optical microcavities. <i>Light: Science and Applications</i> , 2021, 10, 135.	7.7	17
54	Inverse Vernier effect in coupled lasers. <i>Physical Review A</i> , 2015, 92, .	1.0	16

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55	Controlling mode competition by tailoring the spatial pump distribution in a laser: a resonance-based approach. <i>Optics Express</i> , 2016, 24, 26006.	1.7	16
56	Pseudochirality: A Manifestation of Noether's Theorem in Non-Hermitian Systems. <i>Physical Review Letters</i> , 2020, 125, 083902.	2.9	16
57	Optical microcavities: new understandings and developments. <i>Photonics Research</i> , 2017, 5, OM1.	3.4	15
58	Gain-tunable optomechanical cooling in a laser cavity. <i>Physical Review A</i> , 2013, 87, .	1.0	14
59	Threshold current reduction and directional emission of deformed microdisk lasers via spatially selective electrical pumping. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	14
60	Anomalous parity-time-symmetry transition away from an exceptional point. <i>Physical Review A</i> , 2016, 94, .	1.0	13
61	Chiral symmetry in non-Hermitian systems: Product rule and Clifford algebra. <i>Physical Review B</i> , 2021, 103, .	1.1	13
62	Non-Hermiticity-Governed Active Photonic Resonances. <i>Physical Review Letters</i> , 2021, 126, 163901.	2.9	13
63	Directional waveguide coupling from a wavelength-scale deformed microdisk laser. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	12
64	Interaction-induced mode switching in steady-state microlasers. <i>Optics Express</i> , 2016, 24, 41.	1.7	12
65	Direct observation of zero modes in a non-Hermitian optical nanocavity array. <i>Photonics Research</i> , 2022, 10, 574.	3.4	11
66	Selective excitation of lasing modes by controlling modal interactions. <i>Optics Express</i> , 2015, 23, 30049.	1.7	10
67	Optical resonances in rotating dielectric microcavities of deformed shape. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 1736.	0.9	8
68	Constructing the scattering matrix for optical microcavities as a nonlocal boundary value problem. <i>Photonics Research</i> , 2017, 5, B20.	3.4	8
69	Manipulation of High-Order Scattering Processes in Ultrasmall Optical Resonators to Control Far-Field Emission. <i>Physical Review Letters</i> , 2014, 112, 163902.	2.9	7
70	Optical fluxes in coupled PT -symmetric photonic structures. <i>Physical Review A</i> , 2017, 96, .	1.0	7
71	Quantum chaos in optical microcavities: A broadband application. <i>Europhysics Letters</i> , 2018, 123, 64001.	0.7	5
72	Origin of robust exceptional points: Restricted bulk zero mode. <i>Physical Review A</i> , 2020, 101, .	1.0	5

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73	Symmetry, stability, and computation of degenerate lasing modes. <i>Physical Review A</i> , 2017, 95, .	1.0	4
74	Condensation of thresholds in multimode microlasers. <i>Physical Review A</i> , 2017, 95, .	1.0	4
75	Observation of gain spiking of optical frequency comb in a microcavity. <i>Optics Express</i> , 2017, 25, 31140.	1.7	4
76	Time-reversal-invariant scaling of light propagation in one-dimensional non-Hermitian systems. <i>Physical Review A</i> , 2019, 100, .	1.0	4
77	Twisted light on a chip. <i>Science</i> , 2020, 368, 707-708.	6.0	4
78	Controlling a microdisk laser by local refractive index perturbation. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	3
79	Extraordinary Fast Forward and Backward Light in Transparent Non-Hermitian Systems. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000204.	4.4	2
80	Nonlinear and Novel Phenomena in Non-Hermitian Photonics. <i>Advances in Dynamics, Patterns, Cognition</i> , 2020, , 227-248.	0.2	2
81	Nonlinear Modal Interactions in PT-Symmetric Lasers. , 2016, , .		1
82	Vortex radiation from a single emitter in a chiral plasmonic nanocavity. <i>Nanophotonics</i> , 2022, .	2.9	1
83	Green's function as a defect state in a boundary value problem. <i>Physical Review B</i> , 2021, 103, .	1.1	0
84	Ab-initio Semiclassical Multimode Lasing Theory of Chaotic Cavity Lasers. , 2008, , .		0
85	Observation of Two-Port Coherent Perfect Absorber. , 2010, , .		0
86	Coherent perfect absorption and anomalous scattering in balanced gain/loss structures. , 2010, , .		0
87	Laser emission and coherent control of absorption in complex and random systems. , 2011, , .		0
88	Coherent Perfect Absorbers and Coherent Enhancement of Absorption. , 2015, , .		0
89	Scattering in PT and RT Symmetric Multimode Waveguides: Generalized Conservation Laws beyond 1D. , 2016, , .		0
90	Asymmetric Light-Light Interaction by Non-Hermitian Photonics. , 2016, , .		0

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91	Non-Hermitian Particle-Hole Symmetry and its Implications in Photonic Systems. , 2017, , .		0
92	Spontaneous chiral symmetry breaking in a nonlinear microresonator. , 2017, , .		0
93	Defect States Emerging from a non-Hermitian Flat Band of Photonic Zero Modes. , 2017, , .		0
94	Complex Mirror Symmetry in Optics. , 2018, , .		0
95	Linear Localization of non-Hermitian Photonic Zero Modes. , 2018, , .		0
96	Linear Localization of non-Hermitian Photonic Zero Modes. , 2018, , .		0
97	Time-reversal invariant scaling of light propagation in one-dimensional non-Hermitian systems. , 2019, , .		0
98	Origin of robust exceptional points: Restricted bulk zero-mode. , 2020, , .		0